



## THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Ligang Zhang, et al.

Title:

REDISTRIBUTION LAYER SHIELDING OF A CIRCUIT ELEMENT

Application No.: 10/814,816

Filed:

March 31, 2004

Examiner:

Jennifer E. Matisiak

Group Art Unit:

2811

Atty. Docket No.: 026-0041

Confirmation No.:

5295

September 23, 2005

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Respectfully submitted,

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| PTO/SB/08A (Substitute for form 1449/PTO)     | Attorney Docket No.: 026-0041 |                      |  |
|---|-------------------------------|----------------------|--|
|   | Application No.:              | 10/814,816           |  |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | First Named Inventor          | : Ligang Zhang       |  |
| OIPE  | Filing Date:                  | March 31, 2004       |  |
| SEP 0 2 E                                     | Group Art Unit:               | 2811                 |  |
| 2 7 2005 8                                    | Examiner Name:                | Jennifer E. Matisiak |  |
| Sheet I of I                                  | Date Submitted:               | September 23, 2005   |  |

|                       |                          |  | U.S. PATENT DO                 | CUMENTS  |   |                |
|-----------------------|--------------------------|--|--------------------------------|--|---|----------------|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number<br>Number-Kind Code <sup>2</sup><br>(if known)   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Who<br>Relevant Passages or Releva<br>Figures Appear     |                |
|                       | AA                       | 5,459,368  | 10-17-1995                     | Onishi et al.                                      |   |                |
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|                       |                          |  |                                |  |   |                |
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| Examiner Sig          | nature                   |  | <u> </u>                       | Date Considered                                    |   | 1              |

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| PTO/SB/08B (Substitute for form 1449/PTO)   |   |  | Attorney Docket No.: | 026-0041                           |                      |                |  |
|---|---|--|----------------------|------------------------------------|----------------------|----------------|--|
|   |   |  |                      | Application No.:                   | tion No.: 10/814,816 |                |  |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT   |   |  |                      | First Named Inventor: Ligang Zhang |                      |                |  |
| OIPE  |   |  |                      | Filing Date:                       | March 31, 2004       |                |  |
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| P   | SEP 2 7 2005 W  |  |                      | Examiner Name:                     | Jennifer E. Matisiak |                |  |
| Sheet 1 of 1  | Man.  |  |                      | Date Submitted: September 23, 2005 |                      |                |  |
|   | TAD   | NON PATENT L   | ITERATURE DOCUMEN    | ITS                                |                      |                |  |
| Examiner Cite Include name of author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |   |  |                      |                                    |                      | T <sup>2</sup> |  |
|   | AA  | FROMMBERGER, Michael, et al., "Integration of Crossed Anisotropy Magnetic Core Into Toroidal Thin-Film Inductors," IEEE Transactions on Microwave Theory and Techniques, Vol. 53, No. 6, June 2005, pp. 2096-2100. |                      |                                    |                      |                |  |
|   | AB -  | KIM, Sung-Jin, et al., "Realization of High<br>Electronics Engineering, Ajou University,   |                      |                                    | ool of               |                |  |
|   | AC  | LONG, John R. and Miles A. Copeland, "T<br>for Silicon RF IC's," IEEE Journal of Solid   |                      |                                    |                      |                |  |
| AD SOH, H. T., et al., "Through-Wafer Vias (TWV) and their Applications in 3 Dimensional Structures," Proceedings of 1998 International Conference on Solid State Devices and Materials, September 1998, 12 pages.  |   |  |                      |                                    |                      |                |  |
| AE TANG, Chih-Chun, et al., "Miniature 3-D Inductors in Standard CMOS Process," IEEE Journal of Solid Circuits, Vol. 37, No. 4, April 2002, pp. 471-480.  |   |  |                      |                                    |                      |                |  |
|   | AF ,  | TRELEAVEN, Dave and Dick James, "Into www.chipworks.com/resources/resources  |                      | ponents," Whitepapers,             | Chipworks,           |                |  |
| AG TSUI, Hau-Yiu and Jack Lau, 2003 IEEE MTT-S Digest, pp. 225-228.   |   |  |                      |                                    |                      |                |  |
|   | АН  | WU, Joyce H., et al., "A Through-Wafer In<br>Devices, Vol. 51, No. 11, November 2004,  |                      | ICs," IEEE Transaction             | s on Electron        |                |  |
|   | AI ZANNOTH, Markus, et al., "A Fully Integrated VCO at 2 GHz," IEEE Journal of Solid-State Circuits, Vol. 33, No. 12, December 1998, pp. 1987-1991. |  |                      |                                    |                      |                |  |
|   | AJ  | ZOU, Jun, et al., "Development of Vertical Planar Coil Inductors Using Plastic Deformation Magnetic Assembly (PDMA), 2001 IEEE International Microwave Symposium, May 2001, 4 pages.                               |                      |                                    |                      |                |  |
|   | _   |  |                      |                                    |                      |                |  |
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